



U.S. Department Of Energy Office of River Protection

Hanford Advisory Board Health, Safety and Environmental Protection Committee

**Chris Kemp, ORP Deputy Federal Project Director
C-Farm Portable Exhauster Discussion**

May 9, 2013

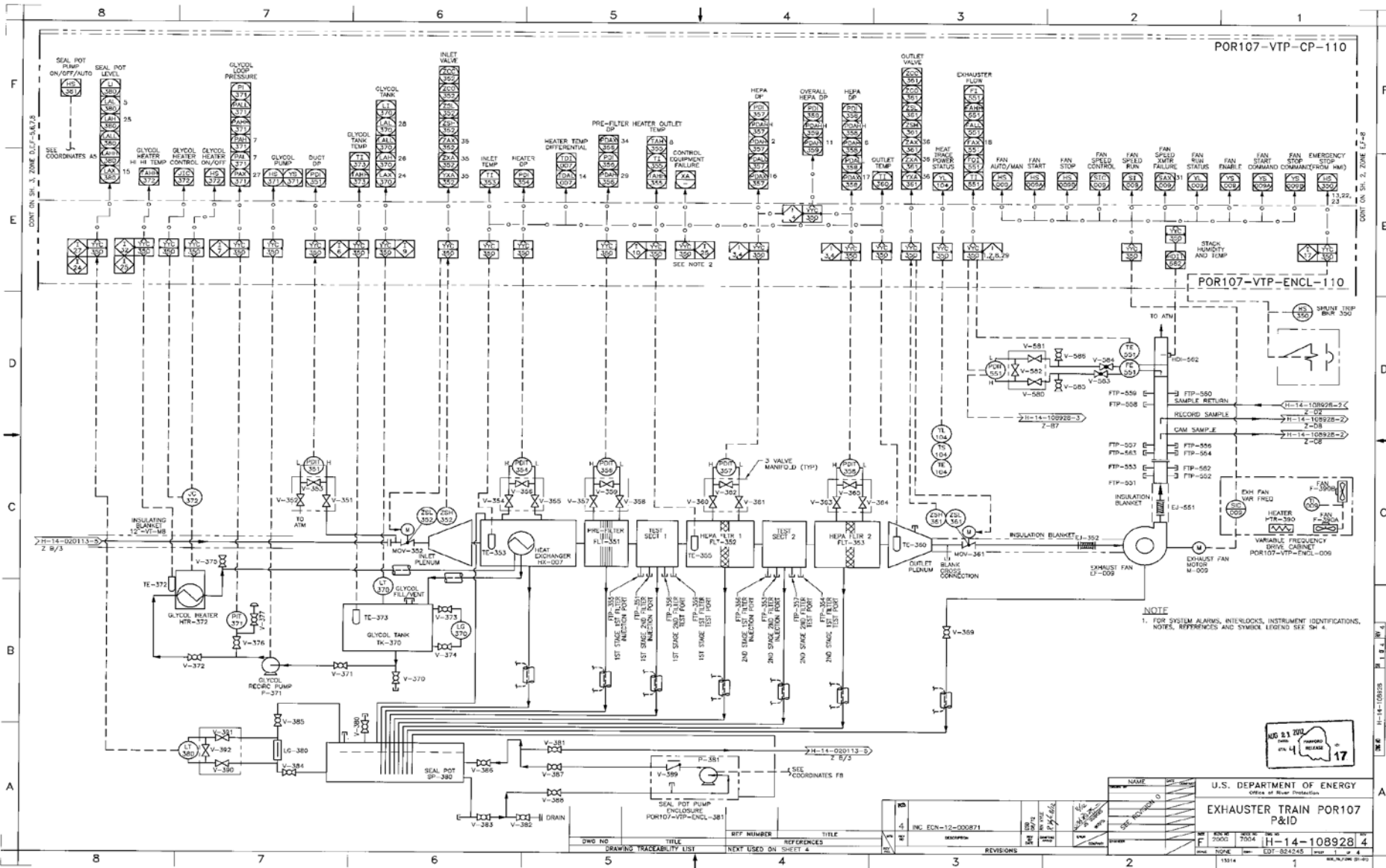
Description of Exhausters

- Three Skid Mounted Exhausters used in C-Farm Retrievals
- POR-03 500 ft³/minute capacity
- POR-08 1,000 ft³/minute capacity
- POR-107 3,000 ft³/minute capacity
- POR-107 and POR-03 use a common header connected to tanks during waste disturbing activities (retrieval)
- POR-08 has its own ductwork header



C-Farm September 2011

How Does the Exhauster Work





Incidents at POR-107

- August 19, 2011, the solid state relay burned up and the circuit (energized) sending full power to the heater core
- 50/50 propylene glycol mixture boiled over and smoke/steam was observed by work crews
- The system was reviewed, the problem isolated, and the relay was replaced
- February 12, 2013 during operator training turning off and on the exhauster smoke/steam from the propylene glycol mixture boiling off was observed
- Have not been able to replicate the event of February 12, 2013
- Emergency crews responded to both events

Questions